

CONTROLLED WELDING OUTPUT WITH FUSED ELECTRODE DETECTION

Abstract of Disclosure

The present invention is directed to a method and apparatus of controlling the output of a welding power source with a fused electrode detection circuit. The present invention incorporates a fused electrode detection circuit to regulate the output of the welding system power source. By providing feedback as to when the electrode begins to stick in the weld, the output of the power source may be regulated to allow easy diffusing of the electrode. That is, by reducing the output of the power source upon detection of a fused electrode condition, a user or technician can remove or unstuck the electrode from the weld without having to shut down the power source or without forcefully removing it while power is on and creating large, damaging arcs. By limiting the output of the power source until the electrode is "unstuck", the present invention reduces the likelihood of damaged electrodes, electrode holders, and welds. The invention provides easy diffusing of the electrode and allows quick return to welding.

Figures